

## Refine Search

### Search Results -

Terms	Documents
6835871.pn.	1

Database: 
 US Pre-Grant Publication Full-Text Database  
**US Patents Full-Text Database**  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search: L19

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Wednesday, March 16, 2005    [Printable Copy](#)    [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L19</u>	6835871.pn.	1	<u>L19</u>
<u>L18</u>	L16 and L17	1	<u>L18</u>
<u>L17</u>	relative adj4 0.5	1121	<u>L17</u>
<u>L16</u>	L14 and L15	4	<u>L16</u>
<u>L15</u>	flower adj3 white	1318	<u>L15</u>
<u>L14</u>	L11 and L13	7	<u>L14</u>
<u>L13</u>	maturity adj3 0	223	<u>L13</u>
<u>L12</u>	maturity adj3 0L11	0	<u>L12</u>
<u>L11</u>	L9 and L10	33	<u>L11</u>
<u>L10</u>	hilum adj5 black	368	<u>L10</u>
<u>L9</u>	L1 and L2 and L3 and L5 and L7 and L8	44	<u>L9</u>
<u>L8</u>	pubescence adj3 tawny	419	<u>L8</u>
<u>L7</u>	cotyledon adj4 yellow	444	<u>L7</u>
<u>L6</u>	cotyledon adj4 yellowL5	0	<u>L6</u>
<u>L5</u>	pod adj3 brown	266	<u>L5</u>
<u>L4</u>	pod adj3 brownL3	0	<u>L4</u>
<u>L3</u>	luster adj5 dull	472	<u>L3</u>
<u>L2</u>	coat adj5 yellow	747	<u>L2</u>
<u>L1</u>	soybean and roundup	429	<u>L1</u>

END OF SEARCH HISTORY

FILE 'HOME' ENTERED AT 11:36:43 ON 16 MAR 2005

=> s schultze d? /au

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file agricola biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'AGRICOLA' ENTERED AT 11:37:17 ON 16 MAR 2005

FILE 'BIOSIS' ENTERED AT 11:37:17 ON 16 MAR 2005

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=> s schultze d? /au

L1 64 SCHULTZE D?

=> s l1 and soybean

L2 12 L1 AND SOYBEAN

=> s l1 and 0509237

L3 0 L1 AND 0509237

=> s l2 and 0509237

L4 0 L2 AND 0509237

=>

FILE 'HOME' ENTERED AT 11:26:04 ON 16 MAR 2005

=> file agricola biosis  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'AGRICOLA' ENTERED AT 11:26:15 ON 16 MAR 2005

FILE 'BIOSIS' ENTERED AT 11:26:15 ON 16 MAR 2005  
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=> s soybean and (cotyledon(w)yellow)  
L1 0 SOYBEAN AND (COTYLEDON(W) YELLOW)

=> s soybean and (yellow(W)cotyledon)  
L2 4 SOYBEAN AND (YELLOW(W) COTYLEDON)

=> s l2 and (tawny(w)pubescence)  
L3 0 L2 AND (TAWNY(W) PUBESCENCE)

=> s soybean and dull and yellow and luster and roundup  
L4 0 SOYBEAN AND DULL AND YELLOW AND LUSTER AND ROUNDUP

=> s soybean and dull and yellow and luster  
L5 0 SOYBEAN AND DULL AND YELLOW AND LUSTER

=> s soybean and dull and yellow  
L6 0 SOYBEAN AND DULL AND YELLOW

=> s soybean and yellow  
L7 1031 SOYBEAN AND YELLOW

=> s l7 and white  
L8 98 L7 AND WHITE

=> s l8 and brown  
L9 19 L8 AND BROWN

=> s l9 and tawny  
L10 2 L9 AND TAWNY

=> d l10 1-2 ibib

L10 ANSWER 1 OF 2 AGRICOLA Compiled and distributed by the National  
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(2005) on STN

ACCESSION NUMBER: 94:14369 AGRICOLA  
DOCUMENT NUMBER: IND20372109  
TITLE: Inheritance of red-buff seed coat in **soybean**  
AUTHOR(S): Seo, Y.W.; Specht, J.E.; Graef, G.L.; Graybosch, R.A.  
AVAILABILITY: DNAL (64.8 C883)  
SOURCE: Crop science, July/Aug 1993. Vol. 33, No. 4. p.  
754-758  
Publisher: Madison, Wis. : Crop Science Society of  
America, 1961-  
CODEN: CRPSAY; ISSN: 0011-183X  
NOTE: Includes references  
PUB. COUNTRY: United States; Wisconsin  
DOCUMENT TYPE: Article  
FILE SEGMENT: U.S. Imprints not USDA, Experiment or Extension  
LANGUAGE: English

L10 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
 ACCESSION NUMBER: 1993:428143 BIOSIS  
 DOCUMENT NUMBER: PREV199396082768  
 TITLE: Inheritance of red-buff seed coat in **soybean**.  
 AUTHOR(S): Seo, Y. W.; Specht, J. E. [Reprint author]; Graef, G. L.;  
 Graybosch, R. A.  
 CORPORATE SOURCE: Dep. Agron., Univ. Nebraska, Lincoln, NE 68583-0915, USA  
 SOURCE: Crop Science, (1993) Vol. 33, No. 4, pp. 754-758.  
 CODEN: CRPSAY. ISSN: 0011-183X.  
 DOCUMENT TYPE: Article  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 22 Sep 1993  
 Last Updated on STN: 23 Sep 1993

=> d l10 2 ab

L10 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
 AB In **soybean** (*Glycine max* (L.) Merr.), five loci ((I/i-k/i-i/i,  
 R/r-m/r, T/t, W1/w1, O/o) interact to produce seed coat and/or hilum color  
 phenotypes of gray (G), **yellow** (Y), black (B1), imperfect black  
 (Ib), **brown** (Br), striped **brown-black**, red-  
**brown** (Rbr), or buff (Bf). The T/t and W1/w1 loci also condition  
**tawny**/gray pubescence and purple/**white** flowers,  
 respectively. T236, a **white**-flowered gray-pubescence accession  
 in the **soybean** genetic collection, has a unusual red-buff (Rbf)  
 seed coat. The genetic relationship of Rbf to the other seed coat colors  
 was not known. To evaluate this relationship, T236 was mated to six  
**soybean** lines of known genotype relative to the five loci. F-2  
 individuals were classified as to flower, pubescence, seed coat, and hilum  
 color. In all crosses, only F-2 plants with while flowers, gray  
 pubescence, and an R- genotype produced Rbf seed coats or hila. The F-2  
 segregation ratios were not compatible with an inheritance model for Rbf  
 that invoked allelic segregation at a sixth locus. Indeed, Rbf seed coat  
 seemed to be conditioned by a new allele at the T/t locus, symbolized as  
 t-r. While there was no perceptible difference in the gray pubescence  
 phenotypes conditioned by the t and t-r alleles, the t-r allele was  
 detectable in an R-w/w1 genetic background, where the allelic series  
 T/t-r/t produced the seed coat color phenotypes of B1/Rbf/Bf (in  
 left-to-right dominance-recessiveness order). In all other backgrounds  
 (i.e., R-W1-, rrW1-, and rrw1w1), the seed coat colors produced by t and  
 t-r were identical. The currently accepted model for the inheritance of  
 anthocyanidin pigments in the **soybean** seed coat is that: (i) R  
 necessary for anthocyanidin production, (ii) T is needed for  
 dihydroxylation of the B-ring, (iii) W1 is needed for trihydroxylation of  
 the B-ring. Our postulation that the Rbf seed coat phenotype requires an  
 R-t-r-w1w1 genotype is consistent with this theory. It is also consistent  
 with the report that pelargonidin, a monohydroxylated B-ring  
 anthocyanidin, is the predominant pigment in the Rbf seed coats of strain  
 T236.

=>

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**Refine Search**

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**Search Results -**

Terms	Documents
L3 and (maturity adj4 0.5)	2

Database: ☐ US Pre-Grant Publication Full-Text Database  
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Search:

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**Search History**

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<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	

DB=USPT; PLUR=YES; OP=OR

<u>L4</u>	L3 and (maturity adj4 0.5)	2	<u>L4</u>
<u>L3</u>	L2 and soybean	28	<u>L3</u>
<u>L2</u>	schultze-dennis-S.in.	28	<u>L2</u>
<u>L1</u>	soybean and 0509237	0	<u>L1</u>

END OF SEARCH HISTORY